OWNER'S MANUAL

FUJICA HD-S

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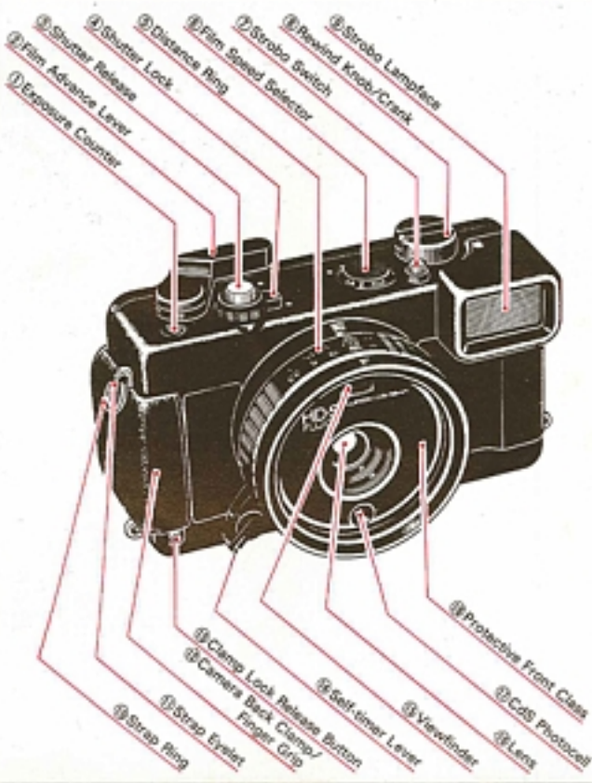
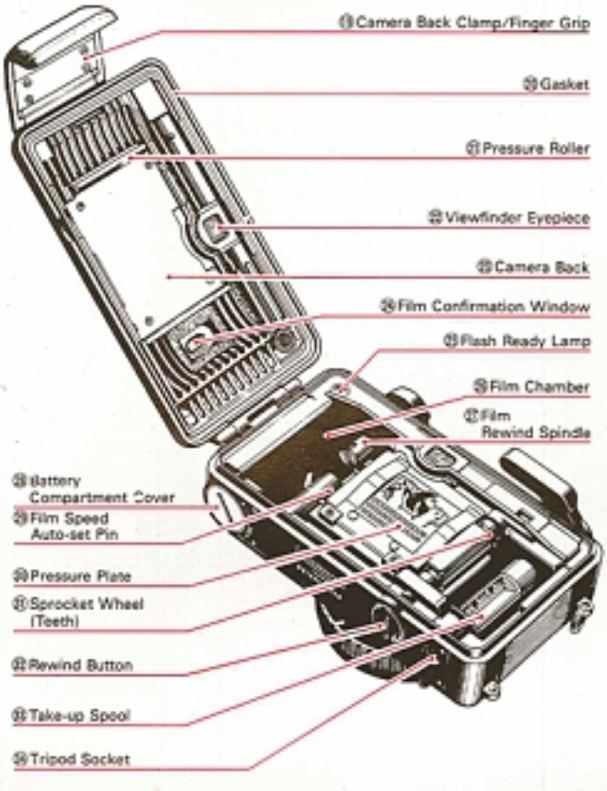
NAMES OF PARTS





SPECIAL FEATURES

1. Your HD-S Fujica is a washable camera. It will expand your picture-taking scope far beyond present horizons because you can shoot with it under ocean sprays and in rain.

2. Its built-in flash lets you shoot in dim light with the touch of a button and promises you perfectly exposed pictures anytime, anywhere.

3. Exposure setting is unnecessary because it has a programmed electronic shutter. Anyone can take perfectly exposed pictures with it by merely focusing the lens and tripping the shutter. Its built-in self-timer lets you get into the picture yourself.

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SPECIFICATIONS

Description	All-weather, water-resistant 35 mm auto-exposure camera with built-in flash.
Film & Picture Size	135 roll film; 24 × 36 mm picture size.
Lens	1 : 2.8 38 mm, 3 components, 4 elements; 67 mm filter (mounted in the lens hood which serves as an adapter).
Shutter	Programmed electronic shutter; continuous, fully automatic exposure from 1/8–1/500 sec.; built-in self-timer.
Viewfinder	Real image; 0.4 × magnification; 85% field of view (at 3 meters); zone focusing symbols and low-light warning.
Focusing	Eye estimation (distance scale and zone focusing symbols); 1 m (3.3 ft.) nearest focusing distance.
Exposure Control	Fully automatic; CdS photocell; EV 6–17 (ASA 100) light metering range; ASA 64–400 film speed setting; automatic film speed setting for ASA 100 and 400 Fuji films.
Film Advance	Single-stroke lever on camera top; provision for advancing film in small increments; 130° winding angle, 35° stand off; crank for rewinding film; automatic reset, additive type exposure counter.
Built-in Flash	Guide number 12; about 6-sec. recycle time with new AM-4 batteries; about 180 flashes with new AM-4 batteries (AAA-size alkaline-manganese batteries); flashmatic operation (flash interlocks with camera's film speed setting).
Power Source	Two 1.5 V alkaline-manganese batteries (AAA-size) provide power for the camera's auto-exposure system and flash.
Dimensions	135(W) × 72.5(H) × 62.5(D) mm. [5.3(W) × 2.9(H) × 2.5(D) in.]
Weight	430 g. (15.2 oz.) without batteries.

Notice: Specifications are subject to change without notice.

PRECAUTIONS

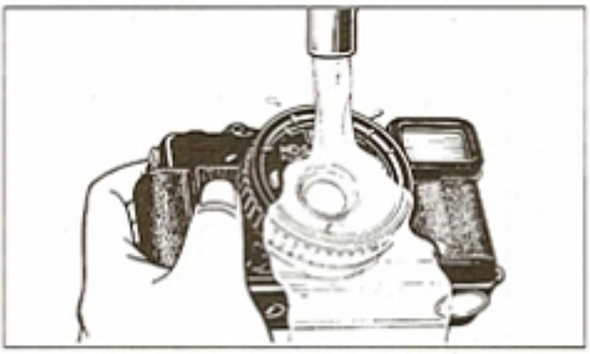
Your HD-S Fujica is not an underwater camera. It is an all-weather camera that is designed for the specific purpose of expanding your picture-taking scope on land. That is why it is made compact and light and is built for simple operation. It is not resistant to underwater pressures but it is entirely safe to ocean sprays, rain, and snow. It will let you take pictures under a much wider variety of conditions because, unlike ordinary cameras, you needn't be afraid of wetting it.

1. **Do not take underwater pictures with your HD-S Fujica**
   Your HD-S Fujica should never be used for taking underwater pictures. Do not leave it immersed in water for too long a time, and do not wash it under pressurized water.
   However, it is safe to ocean sprays, rain, and snow and you can also wash its exterior with water as long as you do it carefully.

2. **Make sure the camera-back gasket is undamaged and free of sand and grit**
   Water will leak through if there is sand and grit on the camera-back gasket when you close the back. Do not immerse the camera for too long a time in sea-water that is mixed with a lot of sand. Wipe your hands clean before opening and closing the camera back. If there is sand on the rubber gasket, dry it then brush off the sand with your hand. If the gasket is damaged, ask your dealer for a replacement.

3. **The camera interior is not waterproof**
   The interior of your HD-S Fujica is not waterproof. Guard the interior from water droplets when loading and unloading film in wet atmosphere. Wipe off exterior moisture thoroughly before opening the camera back.

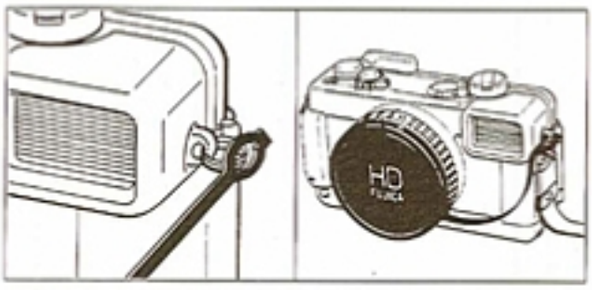
4. Use fresh water to wash the camera exterior
If your HD-S Fujica is dirty or dusty, wash it with fresh water; and if it has been washed in salt water, be sure to rewash it with fresh water to prevent the metal parts from rusting.



5. The shutter release covering may inflate or deflate
The shutter release covering may inflate or deflate somewhat depending on the difference in the temperatures of the sealed-in and the outside air as well as under sudden changes in atmospheric pressure (in an airplane, etc.), but this is only natural and can be ignored. If you want to restore it to normal condition, just open the Battery Compartment Cover for a moment then close it again.

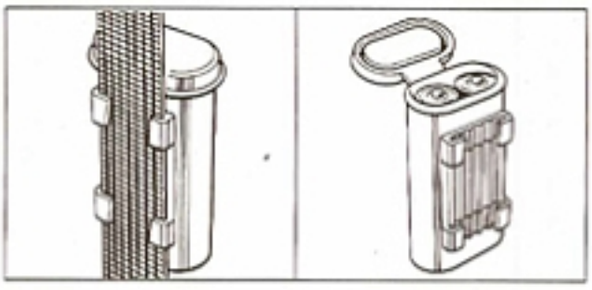
USING THE LENS CAP AND BATTERY CASE

Lens cap



- Fit the end of the Lens Cap thong on the camera's Strap Ring as shown then fix it there by clipping the camera's carrying strap on the same ring.
- If you are not taking pictures, put the Lens Cap on to protect the Front Glass from damage.

Battery case



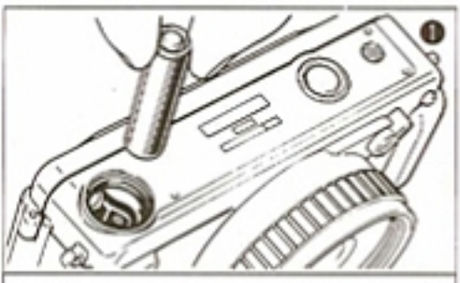
If you are taking your camera on a long trip or on a mountain-climbing expedition, use this case to carry spare batteries.

- Attach the Battery Case to the camera's carrying strap as shown above (left).
- Open the Battery Case Cover and insert two spare batteries as shown above (right), then close the cover.
- If you are taking pictures in freezing weather, detach the Battery Case from the strap and carry it in your pocket to keep the batteries warm.

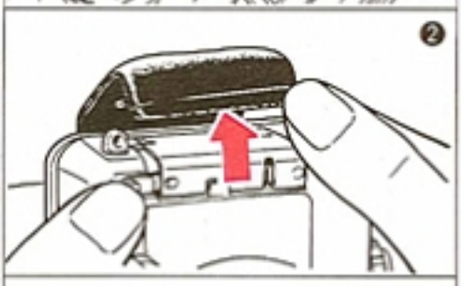
ABRIDGED INSTRUCTIONS

The text of the full instructions starts from page 12.

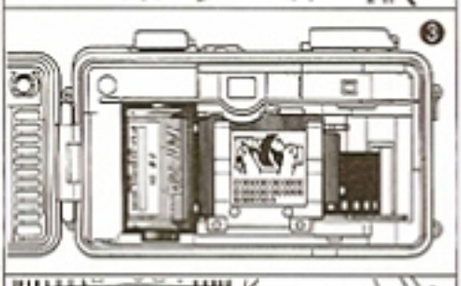
Load the batteries
Insert the batteries plus (+) and minus (−) ends correctly then unlock the shutter by turning and setting the Shutter Lock to the white dot.



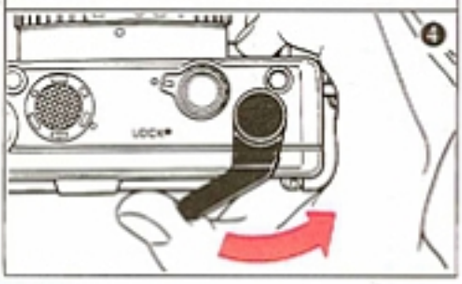
Open the camera back
The Camera Back Clamp will not open unless the Clamp Lock Release Button is held in depressed position.



Load the film
Pull up the Film Rewind Knob, load the film (make sure it goes under the Pressure Plate) then close the Camera Back.

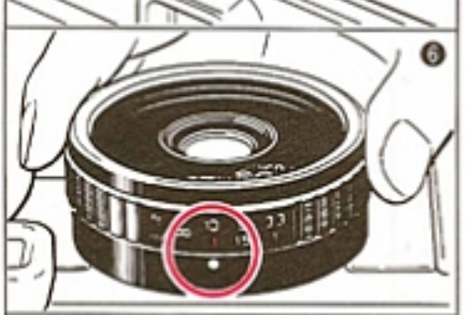


Position the film for the first shot
Wind the film and press down the Shutter Release. Repeat until the Exposure Counter shows "1".



Set the film speed selector
Set the Film Speed Selector to the speed of the film loaded in the camera. If you are using Fuji film, just set the red square mark opposite the red dot and the camera will set itself for the speed of the film loaded in it.

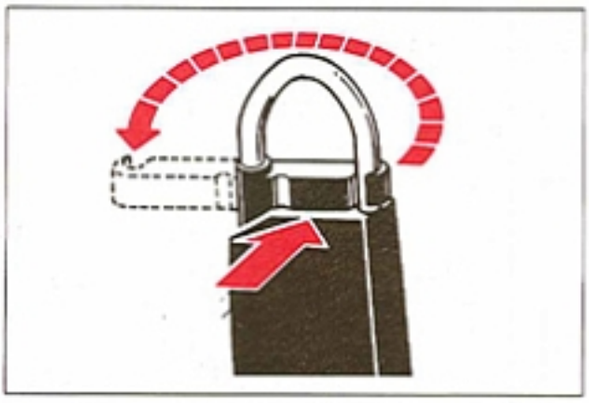
Take your picture
Just focus the lens and press down the Shutter Release.



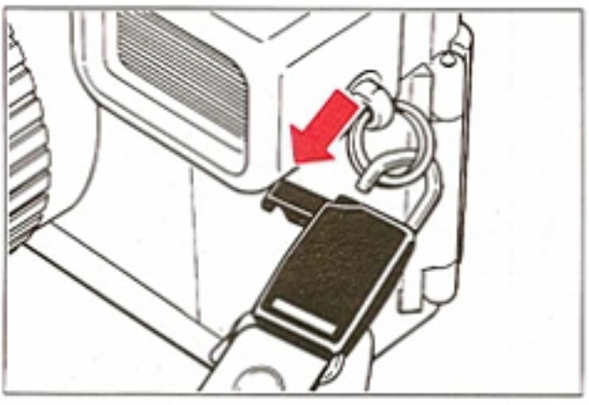
Taking flash pictures
Press down the Strobo Switch for an instant then release it. It will automatically pop up and turn on the flash. In several seconds the Flash Ready Lamp will turn on to tell you the flash is ready for firing.

Film end
Press in the Rewind Button, wind the Rewind Crank, open the Camera Back and unload the film.

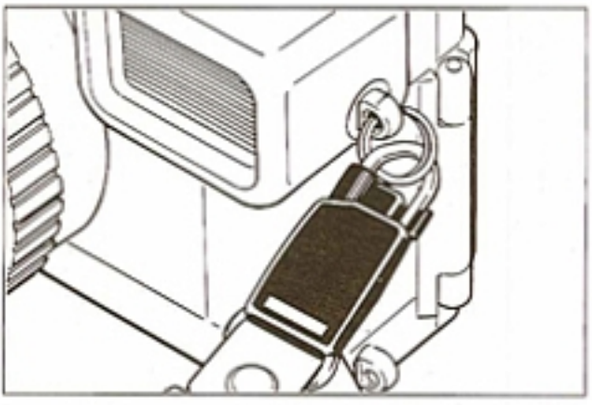
1. Attaching the carrying strap



●Press out the clip lock and swing it out 180 degrees as shown.



●Open the clip by pressing the lock down in the direction of the arrow and fasten it to the camera's Strap Ring.

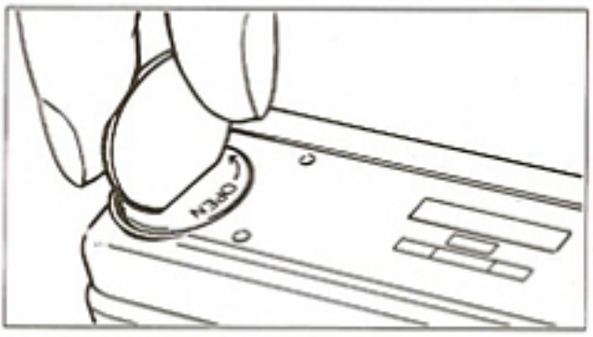


●Swing the Lock back 180 degrees and press it back into its original position. Make sure it snaps into place with a click.

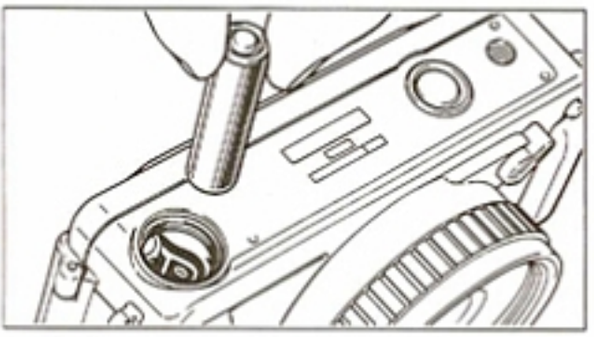
〈Carrying the camera〉

●The strap can be fastened to any two of the four corners of your camera so that you can carry it in various ways to suit the occasion as illustrated above.

2. Loading the batteries



●Use two 1.5 V alkaline-manganese (AAA-size) batteries.
1. With a coin, open the Battery Compartment Cover by turning it to the left (counter-clockwise).

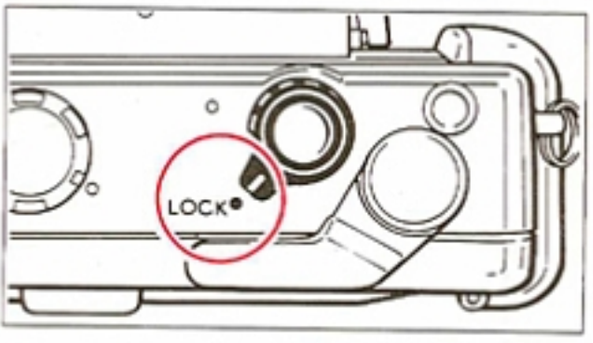


2. Wipe both ends of the batteries clean with a piece of dry cloth then insert them in the Battery Compartment, plus (+) and minus (−) ends correctly as shown in the Battery Compartment. Next, replace the Cover and screw it in tightly.

〈Battery notes〉

●To prevent water leakage and faulty power contact, screw the cover in tightly.
●If there is sand on the Battery Cover O-ring, remove the cover, take out the batteries, wash off sand with fresh water, and dry the O-ring thoroughly before replacing the Cover.
●Use high performance alkaline-manganese (AAA-size) batteries. A pair of new alkaline-manganese batteries will yield about 180 flashes. However, be sure to change the batteries as soon as they start to show wear because the shutter will not operate if the battery power is too low. Also, make it a habit to carry a pair of spare batteries with you to avoid being caught without usable batteries in a picture-taking situation.
●If you are not using the camera for a month or more, remove the batteries before putting it away because old batteries can develop leaks and damage the internal contact terminals.
●If you are shooting in freezing weather, carry the camera inside your jacket and take it out only when it's needed because low temperatures will reduce battery efficiency.

〈Shutter lock〉

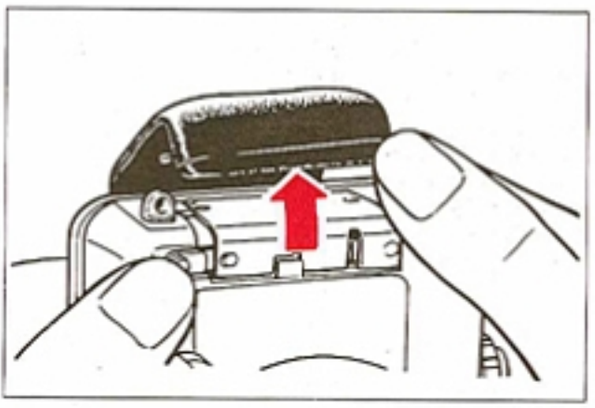


●If you are carrying your camera in a bag or the like, make sure the lock is switched to the red mark (locking position) before putting the camera in it because if the Shutter Release is depressed by anything pushing against it, the low-light warning lamp in the Viewfinder will turn on (and stay on as long as it is depressed) and drain the batteries in about a day.
●Make it a habit to switch the lock to the red mark each time you finish shooting a scene.

3. Opening the camera back

Caution:

The Camera Back Clamp cannot be released unless the Clamp Lock Button is held in depressed position.

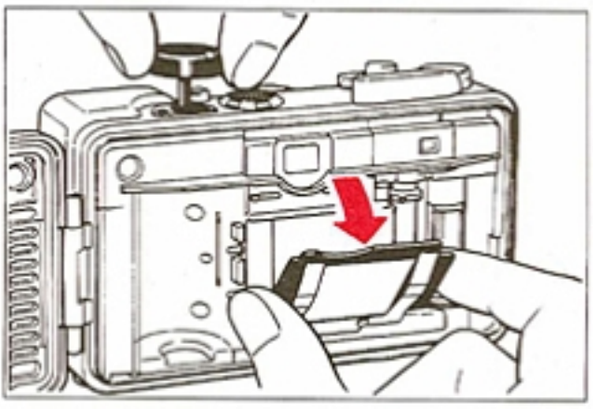


●While pressing in the Clamp Lock Release Button, release the Camera Back Clamp and open the Camera Back.

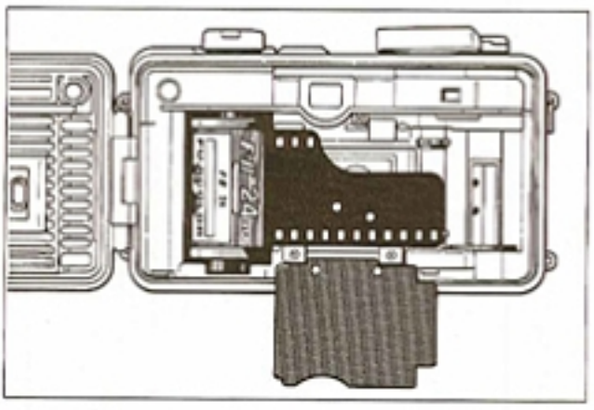
4. Loading the film

Caution:

When loading film, avoid direct sunlight, water sprays, sand, and dust. Also, make sure your hands are dry and free of sand and dirt.



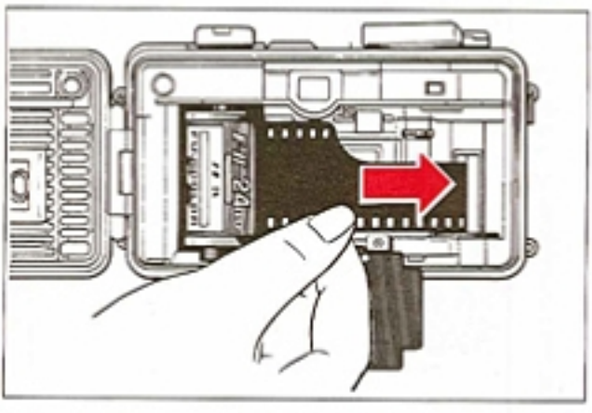
●Pull the Rewind Knob all the way out.
●With your fingers, pull the Pressure Plate all the way back as shown.



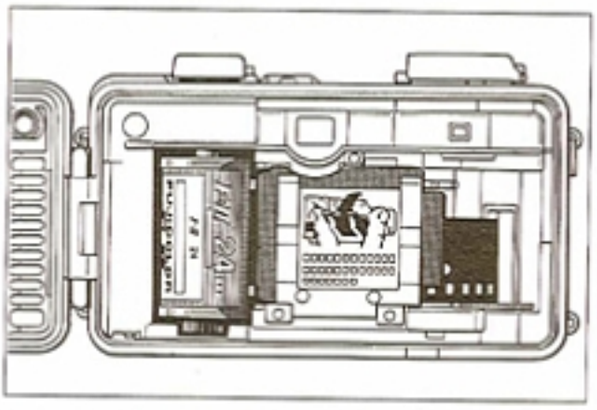
●Insert the film cartridge in the Film Chamber then push the Rewind Knob down to its original position.

Caution:

The film must be passed under Pressure Plate.



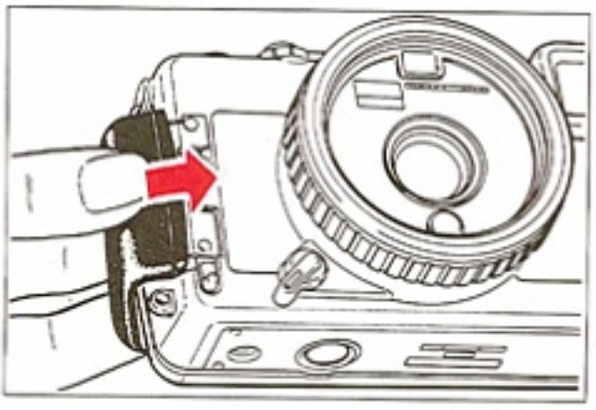
●Insert the film tip deeply into one of the yellow slots of the Take-up Spool.
●Fit the film perforations on the Sprocket Teeth then wind the film with the Film Advance Lever to make sure it will move forward.



●Close the Pressure Plate and apply a slight pressure to it with your finger. It will fall into position with a click.

Caution:

Before closing the Camera Back, make sure the gasket is free of sand and grit.

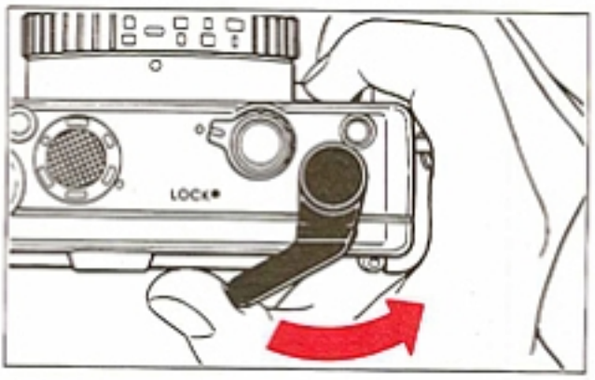


●Close the Camera Back then shut the Camera Back Clamp and press it down so that it locks with a loud click. Next, make sure the Clamp Lock Release Button is jutting out in locked position.

5. Taking up the film slack

●Erect the Rewind Crank and turn it slowly to the right (clockwise) to take up any slack in the film.
●Stop turning the Crank as soon as it feels tight, then fold it back into its slot.

6. Positioning the film for the first shot



●While watching the Exposure Counter, wind the Film Advance Lever and press down the Shutter Release. Repeat until the number "1" shows in the Exposure Counter.
●The film is advancing as it should if the Rewind Knob/Crank spins to the left while the Film Advance Lever is winding.

7. Setting the film speed selector

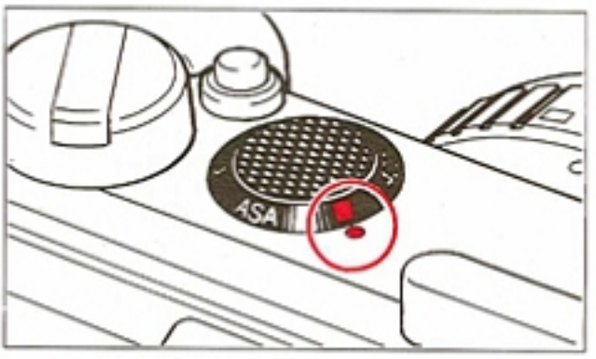
Film Speeds ASA (DIN)	Film Speed Selector Settings
50–64 (18–19)	64
80–125 (20–22)	100
160–250 (23–25)	200
320–400 (26–27)	400

●With the tip of your finger, turn the Film Speed Selector and set it for the speed of the film loaded in the camera. The film speed is printed on the film box.
●The Film Speed Selector is set as shown on the left.

〈Automatic film speed setting〉

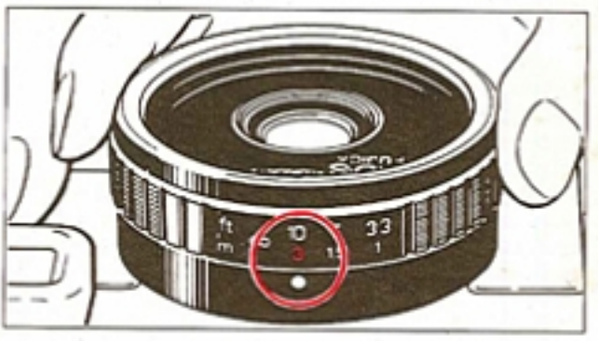
Caution:

Be careful, however, because the camera will automatically set itself for ASA 100 if it is loaded with any other type or brand of film.



●The Film Speed Selector has an auto-setting mark (red square).
●If you are using a Fujicolor F-Ⅱ, Fujicolor F-Ⅱ 400, Fujichrome 100, or Neopan SS film, just set the auto-setting mark (red square) opposite the film speed setting mark (red dot) and the camera will automatically set itself for the speed of the film loaded in it.

8. Focusing the lens



●The Distance Ring has numbers indicating distances and the View-finder is provided with zone focusing symbols. You can use either the numbers or the symbols to focus the lens.
●The lens is focused by eye estimation. To focus, you merely measure the distance from camera to subject with the eye then turn and set the Distance Ring to that distance.
●The Distance Ring also has four click stops but you can take pictures with it set to any point between the click stops. You can also use the space between the zone focusing symbols to focus the lens.

9. Pressing down the shutter release

Caution:

Make sure you don't damage the Shutter Release Covering.

●To take your picture, check the composition then press down the Shutter Release.
●To avoid camera shake, press your elbows tightly against the sides of your chest and press the Shutter Release gently down.

〈Shutter notes〉

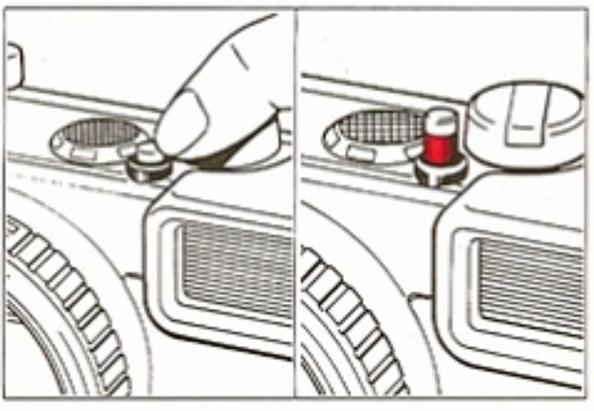
If the shutter does not trip, the possible causes are as follows:

- The Shutter Lock is set to the red dot.
- The film has not been wound.
- The Self-timer has stopped before completing its run (see page 25).
- The batteries are incorrectly loaded.
- The batteries are exhausted.
- The Battery Compartment Cover is not screwed in tightly enough.
- The camera itself is damaged.

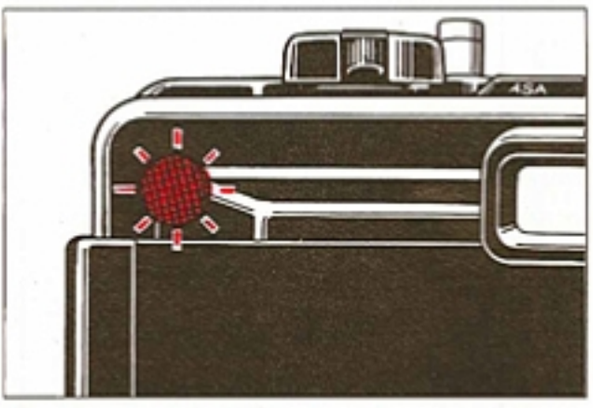
〈Underexposure warning lamp〉

- The Viewfinder is provided with an underexposure warning lamp (red light) in the bottom. If you think you are faced with insufficient light, look through the Viewfinder and press the Shutter Release about halfway down. If the underexposure warning lamp turns on, the shutter will operate at a speed of 1/30-sec. or slower so you'll have to guard against camera shake by holding the camera extra still. It may be necessary for you to use a tripod or shoot with the camera's built-in flash.

10. Taking flash pictures



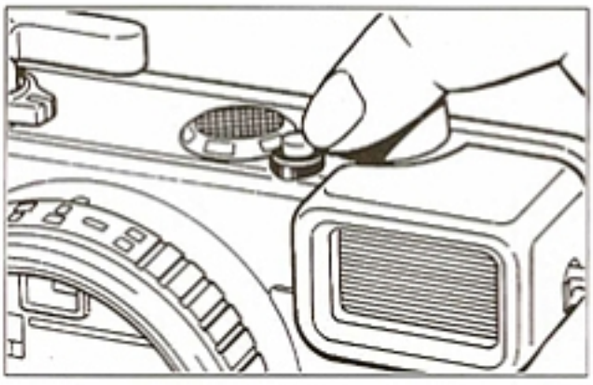
- Press down the Strobo Switch for an instant then release it. It will automatically pop up and turn on the flash.



- In a few seconds the Flash Ready Lamp will turn on to tell you the flash is charged and ready for firing.
- To take your flash picture, focus the lens, frame your subject, and trip the shutter. The flash will discharge in synchronism with the shutter to give you a perfectly exposed picture.

Caution:

Do not use the camera's special lens hood when taking flash pictures because it will obstruct the light emitted by the flash.



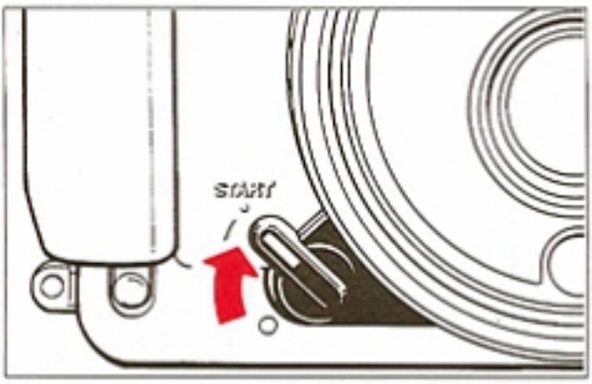
●After you are through taking your flash picture, turn off the flash by pressing down the Strobo Switch. It will automatically lock itself in depressed position.

〈**Flash shooting range**〉

ASA 100 film ····· 1–5 meters (3–15 feet)

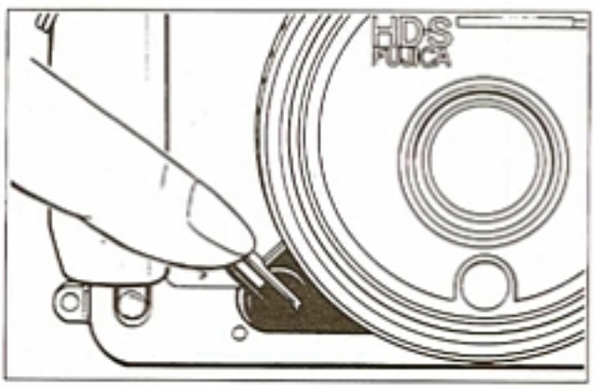
ASA 400 film ····· 1–8 meters (3–25 feet)

11. Using the self-timer



●Wind the film then wind the Self-timer by pushing the Self-timer Lever all the way up (90° clockwise).

●Mount the camera on a tripod and frame your picture.



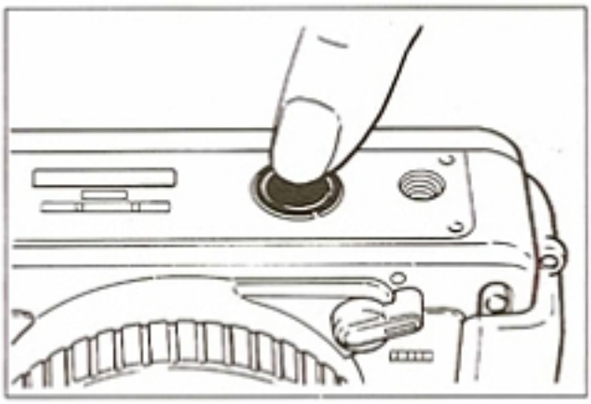
●Start the Self-timer by pushing the Self-timer Lever slightly downward (counter-clockwise). In about 8 seconds, the shutter will trip to take your picture.

Caution:

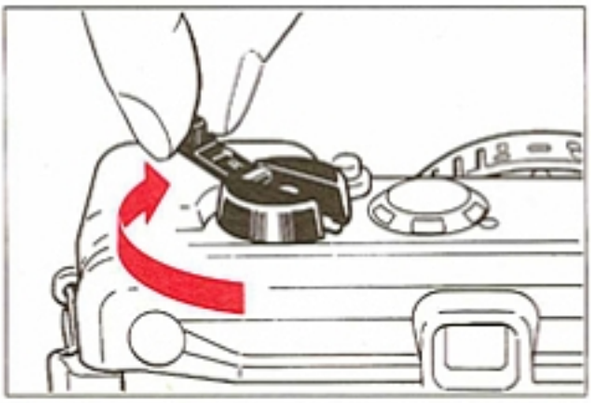
① After winding the Self-timer, keep your fingers off the Shutter Release because the shutter will trip the instant the Shutter Release is depressed.

② Be sure to wind the film before winding and starting the Self-timer. If you wind and start the Self-timer before winding the film, it will stop in mid run. To make it function, you'll have to wind and start it once again.

12. Rewinding the film



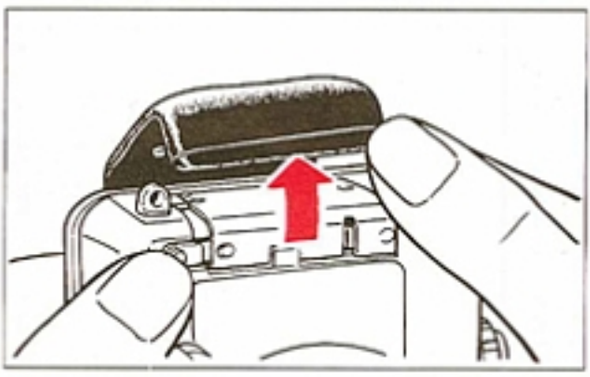
●After you are through exposing a roll of film, push in the Rewind Button (marked "R. Push"). If the film in your camera is a 24-exposure roll, the end is reached when the Exposure Counter shows the number 24.



●Next, erect the Rewind Crank and wind it to the right (clockwise). A sudden release of tension will tell you the film has been wound back into its cartridge.

Caution:

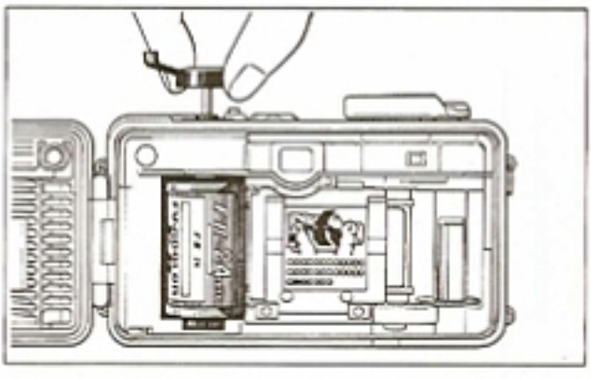
If the camera is wet with water droplets, wipe off moisture thoroughly before opening the Camera Back.



●Make sure your hands are dry and free of sand before opening the Camera Back, and unload the film where it will be safe from direct sunlight, water sprays, and sand.
While pressing in the Clamp Lock Release Button, push back the Camera Back Clamp and open the Camera Back.

Caution:

Make sure the Back Cover gasket is free of sand, debris, and water droplets before closing the Back Cover.



●Next, pull the Rewind Knob all the way out and unload the film. For best results, take the exposed film to your photofinisher as soon as possible.

■Depth of field

●When the lens is focused on a point, that point will turn out sharpest in the picture. However, there will also be a zone of acceptable sharpness extending to a distance in front of and behind the point of sharpest focus, and this zone is known as the depth of field of the lens.

Wide depth of field

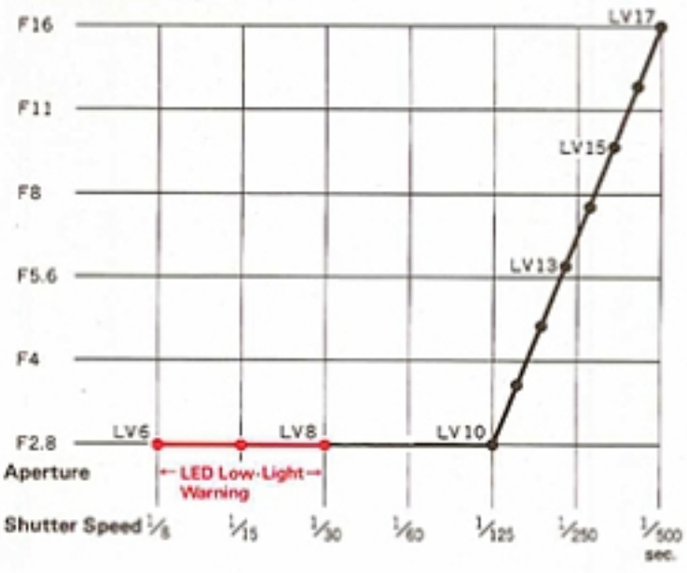
Narrow depth of field

●The accompanying table shows the depth of field of the lens on your HD-S Fujica. This is a very convenient table because it will let you take quick snapshots outdoors without bothering about focusing each time you take a picture.

Distance / Weather Condition	1 m (3.3 ft.)	1.5 m (5 ft.)	3 m (10 ft.)	∞
Bright sunlight	0.7~1.6 (2.3~5.3)	1.0~3.5 (3~11.6)	1.4~∞ (4.6~∞)	2.6~∞ (8.6~∞)
Hazy sunlight	0.8~1.4 (2.6~4.6)	1.1~2.6 (3.6~8.6)	1.6~18 (5.3~59)	3.6~∞ (11.9~∞)
Bright overcast	0.9~1.2 (3~4)	1.3~1.7 (4.3~5.6)	2.1~5.1 (6.9~16.8)	7.2~∞ (23.8~∞)
Dull overcast	0.9~1.1 (3~3.6)	1.3~1.7 (4.3~5.6)	2.3~4.2 (7.6~13.9)	10~∞ (33~∞)

●Your HD-S Fujica is programmed for taking automatic exposure pictures over a wide range of lighting conditions, that is, from EV6 (indoor nighttime pictures at home) to EV 17 (skiing scenes in bright sunlight). The accompanying graph shows its programmed range of shutter speed and aperture combinations.

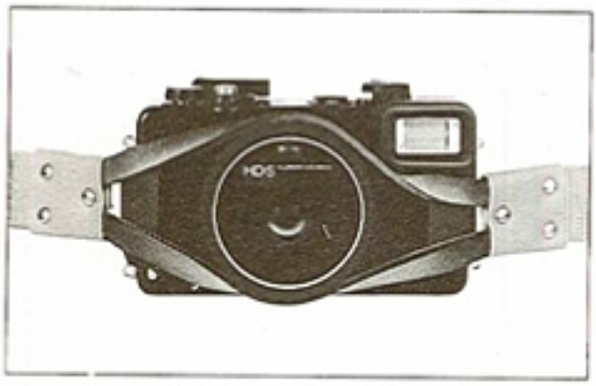
〈Programmed range〉

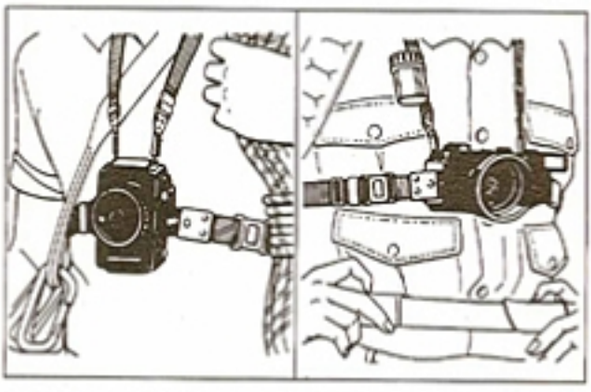


HD-ACCESSORIES

Notice:
The particulars given on the HD accessories introduced in this manual are subject to change without notice.

Chest Harness





●This special strap is used in combination with the neckstrap (carrying strap) to secure the camera tightly to the chest so that the arms and hands are left free for action. The camera can be secured to it or detached with little more than a finger's touch so that you won't miss those once-in-a-lifetime shots.
●It is a very handy accessory to take with you to mountain-climbing, cycling, boating, angling, etc.
●This Chest Harness will accept practically any type of camera.

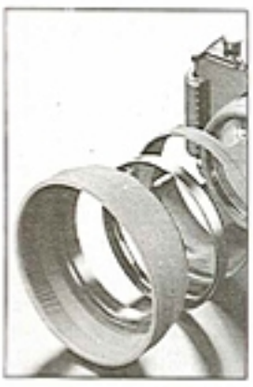
Film Case

●This watertight case is used for protecting your film from rain and water sprays both before and after exposure. It can be attached to the carrying strap. Be sure to bring it along with your HD-S Fujica if you are taking pictures in locations where there is a chance of wetting your film.

Floating Bag

●This waterproof bag is made of nylon taffeta and will float on water.
●Its urethane-foam padding will protect your camera and accessories from scrapes and bumps.
●It will also protect your ordinary camera, film, and small accessories from ocean sprays and rain.

Lens Hood



●It eliminates ghost and flare from pictures taken in strong sunlight.
●In rainy weather, it prevents water droplets from attaching to the camera's Protective Front Glass.
●It will also protect the camera from bumps against the front.
●It accepts any commercially available 67 mm filters and close-up lenses.

〈Filters and their uses〉

●Filters are useful for cutting off detrimental rays. They can also be used for adding special effects to your pictures and for enhancing picture contrast. They are used on your HD-S Fujica without exposure compensation because they will cover both the CdS Photocell and Lens.

●Skylight filter
Yields clearer landscapes in color.
●UV filter
Absorbs ultraviolet rays. Can be used for exposing color and black and white films.
●Yellow and orange filters
They improve the contrast of black and white landscapes and yield better sky effects.
●Red filter
This is used for exposing infrared film.
●ND filter
Cuts down excess light. Can be used for exposing both color and black and white films.
●Light balancing filter
Changes the color temperature of the exposing light. Used for exposing color films.
Note:
Besides those mentioned, there are filters designed for various other purposes which can be obtained commercially.

Taking close-ups and magnified pictures

●Close-ups and magnified pictures can be taken with commercially available close-up lenses on your HD-S Fujica.
●You will enjoy picture-taking all the more once you start taking pictures of wild flowers, insects, fishes, books and other small objects.
〈Commercially available close-up lenses〉
●Kenko Close-up Lenses (67 mm) Nos. 2 and 3.
No. 2: 50 cm shooting distance, about 297×420 mm covering area.
No. 3: 33 cm shooting distance, about 210×297 mm covering area.
Note:
To take pictures with these close-up lenses on your HD-S Fujica, the Distance Ring must be set to ∞.

CAMERA CARE

- To wash your HD-S Fujica, close the Camera back tightly then rinse off exterior with a piece of soft cloth soaked with water or turn on the faucet so that the water flows gently and let the water run over the camera exterior. Sand and debris in hollows and indentations are removed with the light strokes of a soft brush. After washing, wipe off moisture thoroughly with a piece of soft, dry cloth.
- The camera interior is not watertight. In case it is soiled, wipe off carefully with a soft and dry silicon cloth. The interior metal parts are cleaned with a piece of soft cloth moistened with a small quantity of alcohol.
- If any one of the waterproofing elements is damaged, water will leak through and damage the camera. In case of trouble, take the camera to your camera shop; it should never be taken apart except by a qualified service technician.
- Take special care to keep the Protective Front Glass and Viewfinder Eyepiece free of dirt and fingermarks. In case they are soiled, wipe off carefully with a piece of soft cloth or with Fuji Lens Cleaning Fluid and Fuji Lens Cleaning Paper.
- Remember, your HD-S Fujica is water-resistant and completely sealed. Do not leave it in direct sunlight or in the glove compartment of your car in hot weather or anywhere else where heat can accumulate except temporarily for a very short time.
- If you are not using your camera for a month or more, remove the batteries and keep it away from heat, moisture, and dust.